LISTING OF CLAIMS

Please cancel claims 11-18, 35 and 36. This listing of claims, if entered, replaces all prior versions of the claims.

- 1. (Original) A method, comprising:
- accessing data representing an interconnect model, wherein the interconnect model includes a driving point node, and wherein the interconnect model is not a lumped capacitance model;
- calculating an effective capacitance of the interconnect model to be inversely proportional to a voltage at the driving point node of the interconnect model; and storing a value representing the effective capacitance.
- 2. (Original) The method of claim 1, wherein said calculating calculates the effective capacitance to be directly proportional to a sum of one or more products, wherein each of the one or more products equals a product of a respective one of one or more capacitances included in the interconnect model and a voltage across the respective one of the one or more capacitances.
- 3. (Original) The method of claim 1, wherein said accessing further comprises accessing data representing a driver model; and said calculating comprises calculating the effective capacitance as a function of a resistance included in the driver model.
- 4. (Original) The method of claim 1, wherein said calculating is performed without using numerical techniques.
- 5. (Original) The method of claim 1, wherein the interconnect model is a pi model.
- 6. (Original) The method of claim 5, further comprising:

- calculating a plurality of time constants from a plurality of capacitances and a resistance included in the pi model and from a resistance included in a driver model of a driver coupled to an interconnect modeled by the interconnect model; and using the plurality of time constants to perform said calculating the effective capacitance.
- 7. (Original) The method of claim 1, wherein: the interconnect model includes one or more inductances.
- (Original) The method of claim 1, wherein:
 said calculating the value of the effective capacitance is performed according to a closed form algorithm.
- 9. (Original) The method of claim 1, wherein said storing comprises storing the effective capacitance value in a lookup table.
- 10. (Original) The method of claim 9, further comprising: repeating said calculating and said storing for each of a plurality of different values of the one or more capacitances in the interconnect model.
- 11-18. (Canceled)
- 19. (Original) A system, comprising a processor and a memory storing program instructions executable by the processor to:
 - access data representing an interconnect model, wherein the interconnect model includes a driving point node, and wherein the interconnect model is not a lumped capacitance model;
 - to a voltage at the driving point node of the interconnect model; and store a value representing the effective capacitance.
- 20. (Original) The system of claim 19, wherein the program instructions are executable by the processor to:

calculate the effective capacitance to be directly proportional to a sum of one or more products, wherein each of the one or more products equals a product of a respective one of one or more capacitances included in the interconnect model and a voltage across the respective one of the one or more capacitances.

21. (Original) The system of claim 19, wherein the program instructions are executable by the processor to:

access data representing a driver model; and calculate the effective capacitance as a function of a resistance included in the driver model.

22. (Original) The system of claim 19, wherein the program instructions are executable by the processor to:

calculate the effective capacitance without using numerical techniques.

- 23. (Original) The system of claim 19, wherein the interconnect model is a pi model.
- 24. (Original) The system of claim 19, wherein: the interconnect model includes one or more inductances.
- 25. (Original) The system of claim 19, wherein the program instructions are executable by the processor to:

calculate the effective capacitance according to a closed form algorithm.

26. (Original) The system of claim 19, wherein the program instructions are executable by the processor to:

store the value representing the effective capacitance in a lookup table.

27. (Original) A computer readable medium, comprising program instructions executable to:

access data representing an interconnect model, wherein the interconnect model includes a driving point node, and wherein the interconnect model is not a lumped capacitance model;

calculate an effective capacitance of the interconnect model to be inversely proportional to a voltage at the driving point node of the interconnect model; and store a value representing the effective capacitance.

28. (Original) The computer readable medium of claim 27, wherein the program instructions are executable to:

calculate the effective capacitance to be directly proportional to a sum of one or more products, wherein each of the one or more products equals a product of a respective one of one or more capacitances included in the interconnect model and a voltage across the respective one of the one or more capacitances.

29. (Original) The computer readable medium of claim 27, wherein the program instructions are executable to:

access data representing a driver model; and calculate the effective capacitance as a function of a resistance included in the driver model.

30. (Original) The computer readable medium of claim 27, wherein the program instructions are executable to:

calculate the effective capacitance without using numerical techniques.

- 31. (Original) The computer readable medium of claim 27, wherein the interconnect model is a pi model.
- 32. (Original) The computer readable medium of claim 27, wherein: the interconnect model includes one or more inductances.
- 33. (Original) The computer readable medium of claim 27, wherein the program instructions are executable to:

calculate the effective capacitance according to a closed form algorithm.

34. (Original) The computer readable medium of claim 27, wherein the program instructions are executable to:

store the value representing the effective capacitance in a lookup table.

35-36. (Canceled)